



# **AUDIO IP PLATFORM**

## What is BAT?

BAT is an advanced audio IP platform, providing high-fidelity audio IPs for battery powered SoC.

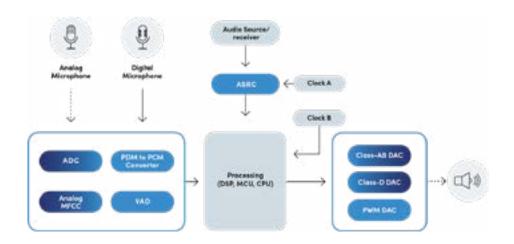
Dolphin Semiconductor portfolio brings unmatched quality, power consumption and innovation. From the industry's best ADC to the exclusive class–D IP, our audio redefines value creation, when developing IPs in-house and drastically reduce time-to-market, costs and risk.

Our solutions promise not just extended battery life but optimization of trending use cases, like ANC, beamforming or voice user interface.

#### **APPLICATIONS**

- > Earbuds & Headsets
- > Smart Speakers
- > Wearables
- > AR/VR
- > IoT devices
- > Automotive
- > Audio smart detection

## **ONE-STOP SHOP PLATFORM**



## **KEY PERFORMANCES**

High SNR: 120 dB DAC; 109 dB ADC

Low latency: down to 1.5 µs

**Low noise:** down to 1.78 μVrms

**Low power:** down to 125 µA ADC

Low gate count ASRC and PWM DAC

8 μA Voice Activity Detection

4 μA Analog feature extraction

### **KEY FEATURES**

0° Phase mismatch between

channels

Analog & Digital VAD

Digital DAC

PLL-less audio codec

Customizable audio codec



